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DRMP
ENGINEERS · SURVEYORS · PLANNERS · SCIENTISTS

Letter of Transmittal

To: Annette Burkett
South Florida Water Management District
1707 Orlando Central Parkway
Suite 200
Orlando, FL 32809

Date: 12/4/06

DRMP Job #: 00-0366.300

DRMP Task:

Subject: Disney's Contemporary Suites
Application #061106-23

We are sending you:

X Attached	____ Airborne Express	____ Courier	X Hand Deliver
____ FedEX	____ First Class	____ Pick-Up	____ UPS Ground
____ UPS 2nd Day	____ Change Orders	____ Shop Drawings	____ Plans
____ Prints	____ Reports	____ See Below	
____ Other			

Copies	Date	Description
3		Requested Additional Information (includes grading plan with FFEs, revised Critical Data Summary, wall and littoral zone calculations)

For:

____ Approved as submitted	____ For review & comment	X As requested	X For your approval
____ For your use	____ For your files	____ Returned from loan	____
____ Other			

Remarks: If you have any questions regarding this transmittal, please contact our office.

Sincerely,
Dyer, Riddle, Mills & Precourt, Inc.

Eric Arp
Project Engineer

CC: WDD
Mack Elsabagh

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DRMP ENGINEERS · SURVEYORS · PLANNERS · SCIENTISTS	Made By: esa	Date: 12/4/06	DRMP Job No.: 00-0366.300	
	Checked By:	Date:	Task No.:	Sheet No.:
	Calculations For: Disney's Contemporary Suites			

% Pond Perimeter Walled

Pond Perimeter @ NWL = 815 ft

Wall Length @ NWL = 244 ft

$$\% \text{ Pond Perimeter Walled} = \frac{244 \text{ ft}}{815 \text{ ft}} = 30\%$$

Littoral Zone

Required Littoral Zone

$(0.20)(0.72 \text{ ac}) = 0.14 \text{ ac}$ ← CONTROL

$(0.025)(8.67 \text{ ac}) = 0.22 \text{ ac}$

Provided Littoral Zone

Area @ NWL = 0.72 ac

Area @ 6' Depth = 0.45 ac

Littoral Zone Area = 0.72 ac − 0.45 ac = 0.27 ac

ERIC ARP
LICENSED
FLORIDA

12/4/06
Eric Arp
PE # 53971

Form G14-1 Revised 11/1/02

DVC @ The Contemporary
Construction Trailer Compound

Critical Data Summary

1.0 Overview

Location Map: See attached.

Modification (Permit No. 48-00714-S)

Application Type: ERP

Location
County: Orange

General Location: Sections 11 & 12, Township 24S, Range 27E

Owner: Walt Disney World Co., Inc.

Permittee: Reedy Creek Improvement District

Operation Entity: Walt Disney World Co., Inc.

Project Area: 14.25 acres

Project Land Use: Commercial

Drainage Basin: Reedy Creek

Total Acres of Wetlands Onsite: 0

Total Acres of Wetlands Impacts: 0

Total Acres of Preserved Wetlands: 0

2.0 Project Site Description

Disney's Contemporary Suites entails the construction of a commercial development with associated infrastructure where the existing Contemporary Hotel North Garden Wing is now located. This area is within Basin L407A-2 of the RCID Master Drainage Plan. Attenuation of stormwater will take place in the RCID master system. Existing condition hydrographs have been modeled for this project regardless.

This project consists of demolition of the existing Contemporary Hotel North Garden Wing with construction of a new commercial building with amenities along with an expansion to the existing parking facility. The existing building and parking area has approximately 8.75 acres of impervious area which is drained through an existing storm sewer system into the RCID master system. Drainage from this area is not treated in the present condition.

A wet detention pond has been designed to treat the runoff from the proposed building and parking lot expansion. In addition, the area of the existing parking facility has been included in the proposed pond's pollution abatement volume calculations even though drainage from this area cannot physically be routed through the pond.

The normal water level of the pond was established based upon two factors, the average wet season ground water table elevations as established by PSI and the seasonal high water elevations of the surrounding wetlands as established by PBS&J. Based on information provided by PSI, the average wet season groundwater table elevation in the area of the pond is approximately 95.7 ft. Based upon information provided by PBS&J, the seasonal high water elevations in the wetlands is approximately 96.1 ft. The normal water elevation in the proposed pond has been set at 96.2 ft. to provide positive outfall to the wetland.

3.0 Land Use

Building	Pavement	Water Management	Pervious	Total
0.89 ac	8.25 ac	0.93 ac	4.18 ac	14.25 ac

4.0 Surface Water Management Design Parameters

Water Quality/Discharge Table

WQ Volume Required	WQ Volume Provided	Overflow Elevation	Allowable Discharge	Proposed Discharge	Receiving Body
1.72 af	1.72 af	98.39 ft	NA	29.62 cfs	Off-Site Wetland

Design Storm Stages

Control El.	10yr/72hr Stage	Prop. Min Rd.	100yr/72hr Stage	Prop Min FF
96.2	99.09	99.70	99.45	101.50

Control Structures

POST-1 Type H DBI (36"x79") top elevation 98.39
3" orifice elevation 96.20
36" RCP & 6" ADS